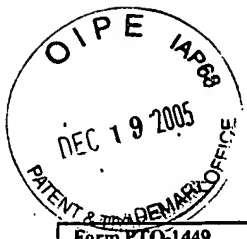




Form PTO-1449 (Rev. 2-32)		U.S. Department of Commerce Patent & Trademark Office		Atty. Docket No. SAIC0006		Serial No. 09/577,166	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				Applicant Richard L. SUTHERLAND, et al.			
				Filing Date May 24, 2000		Group 1756	
U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class		Filing Date (if appropriate)
<i>gh</i>		5,680,233	10/21/97	Faris, et al.	359	41	11/28/95
FOREIGN PATENT DOCUMENTS							
<i>gh</i>		JP 60189729 A	9/21/85	Ricoh Co. Ltd.	G02F	1/133	3/9/84
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER <i>gh</i>				DATE CONSIDERED <i>4/21/03</i>			
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FOREIGN PATENT DOCUMENTS							
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>ms</i>		J. Zhang, et al., "Switchable Holograms Recorded in Liquid Crystalline Monomers," <i>SPIE</i> , Vol. 2042, pp. 238-247 (January, 1994)					
<i>W</i>		J. Zhang, et al., "Switchable Liquid Crystalline Photopolymer Media for Holography," <i>J.</i> <i>Am. Chem. Soc.</i> , Vol. 114(4), pp. 1506-1507 (1992)					
EXAMINER <i>ms/lu</i>				DATE CONSIDERED <i>4/21/03</i>			
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SYSTEM AND METHOD FOR REPLICATING VOLUME HOLOGRAMS

Application:



09/577166

Confirmation: 5232

Applicant(s): Richard Sutherland

Docket

SAIC0006

Number:

Group Art

1756

Unit:

Examiner: Angebranndt, Martin J.

search string: 6211976 or 6172778 or 6115152 or 5942157 or 5937115 or 5915051 or 5875012 or 5832148 or 5771320 or 5751452 or 5748272 or 5734485 or 5731853 or 5706375 or 5698343 or 5698134 or 5695682 or 5661577 or 5661533 or 5648857 or 5641426 or 5593615 or 5547786 or 5544268 or 5330264 or 5328800 or 5323251 or 5313317 or 5303322 or 5291317 or 5272550 or 5270843 or 5264950 or 5258008 or 5240636 or 5235445 or 5234447 or 5227906 or 5227859 or 5220928 or 5210630 or 5198912).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
<i>u</i>	P01	6211976	2001-04-03		Popovich, et al.	359	15
<i>u</i>	P02	6172778	2001-01-09		Reinhorn, et al.	359	15
<i>u</i>	P03	6115152	2000-09-05		Popovich, et al.	359	15
	P04	5942157	1999-08-24		Sutherland, et al.	252	582

<i>hu</i>	P05	5937115	1999-08-10		Domash	385	16
<i>hu</i>	P06	5915051	1999-06-22		Damask, et al.	385	16
<i>hu</i>	P07	5875012	1999-02-23		Crawford, et al.	349	74
<i>hu</i>	P08	5832148	1998-11-03		Yariv	385	16
<i>hu</i>	P09	5771320	1998-06-23		Stone	385	16
<i>hu</i>	P10	5751452	1998-05-12		Tanaka, et al.	359	52
<i>hu</i>	P11	5748272	1998-05-05		Tanaka, et al.	349	86
<i>hu</i>	P12	5734485	1998-03-31		Buchkremer, et al.	359	25
<i>hu</i>	P13	5731853	1998-03-24		Taketomi, et al.	349	15
<i>hu</i>	P14	5706375	1998-01-09		Mihailov, et al.	385	24
<i>hu</i>	P15	5698343	1997-12-16		Sutherland, et al.	430	1
<i>hu</i>	P16	5698134	1997-12-16		Jubb, et al.	252	299.01
<i>hu</i>	P17	5695682	1997-12-09		Doane, et al.	252	299.01
<i>hu</i>	P18	5661577	1997-08-26		Jenkins, et al.	359	11
<i>hu</i>	P19	5661533	1997-08-26		Wu, et al.	349	169
<i>hu</i>	P20	5648857	1997-07-15		Ando, et al.	359	12
<i>hu</i>	P21	5641426	1997-06-24		Nerad, et al.	252	299.01
<i>hu</i>	P22	5593615	1997-01-14		Nerad, et al.	252	299.01
<i>hu</i>	P23	5547786	1996-08-20		Brandstetter, et al.	430	1
<i>hu</i>	P24	5544268	1996-08-09		Bischel, et al.	385	4
<i>hu</i>	P25	5488681	1996-01-30		Deacon, et al.	385	37
<i>hu</i>	P26	5384067	1995-01-24		Doane, et al.	252	299.01
<i>hu</i>	P27	5376095	1994-12-27		Ortiz	505	143
<i>hu</i>	P28	5366462	1994-11-22		Kaster, et al.	505	153
<i>hu</i>	P29	5363228	1994-11-08		Dejule, et al.	359	117
<i>hu</i>	P30	5356557	1994-10-18		Jubb, et al.	252	299.01
<i>hu</i>	P31	5354498	1994-10-17		Akashi, et al.	252	299.01
<i>hu</i>	P32	5330486	1994-07-19		Wilk	606	139

<i>W</i>	P33	5330264	1994-07-19		Ando, et al.	359	12
<i>W</i>	P34	5328800	1994-07-12		Yokoya, et al.	430	203
<i>W</i>	P35	5323251	1994-06-21		Coates, et al.	359	51
<i>W</i>	P36	5313317	1994-05-17		Saburi, et al.	359	13
<i>W</i>	P37	5303322	1994-04-12		Winston, et al.	385	146
<i>W</i>	P38	5291317	1994-03-01		Newswanger	359	15
<i>W</i>	P39	5272550	1993-12-21		Dickson, et al.	359	3
<i>W</i>	P40	5270843	1993-12-14		Wang	359	52
<i>W</i>	P41	5264950	1993-11-28		West, et al.	359	51
<i>W</i>	P42	5258008	1993-11-02		Wilk	606	219
<i>W</i>	P43	5240636	1993-08-31		Doane, et al.	252	299.01
<i>W</i>	P44	5235445	1993-08-10		Hirai, et al.	359	52
<i>W</i>	P45	5234447	1993-08-10		Kaster, et al.	606	153
<i>W</i>	P46	5227906	1993-07-13		Tokumitsu	359	117
<i>W</i>	P47	5227859	1993-07-13		Leib, et al.	556	347
<i>W</i>	P48	5220928	1993-06-22		Oddsens, et al.	128	898
<i>W</i>	P49	5210630	1993-05-11		Heynderickx, et al.	359	106
<i>W</i>	P50	5198912	1993-03-30		Ingwall, et al.	359	3


Remarks

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Signature

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Application: 
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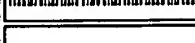
Group Art
Unit: 1756

Examiner: Angebrannt, Martin J.

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4728547 or 4688900 or 4673241 or 4560249 or 4374371 or 4368736 or 4210132 or 4045124 or
4018228 or 4006963 or 4003629 or 3658526).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
<i>u</i>	P01	5188638	1993-02-23		Tzakis	606	153
<i>u</i>	P02	5182665	1993-01-26		O'Callaghan, et al.	359	95
<i>u</i>	P03	5174276	1992-12-28		Crockard	128	4
<i>u</i>	P04	5170925	1992-12-15		Madden, et al.	227	175
<i>u</i>	P05	5166813	1992-11-24		Metz	359	15

u *u*

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<i>h</i>	P06	5136666	1992-08-04		Anderson, et al.	385	24
<i>h</i>	P07	5105298	1992-04-14		Schellenberg	359	3
<i>h</i>	P08	5096282	1992-03-17		Margerum, et al.	359	3
<i>h</i>	P09	5084203	1992-01-28		Sansone, et al.	252	299.5
<i>h</i>	P10	5047039	1991-09-10		Avant, et al.	606	148
<i>h</i>	P11	5047040	1991-09-10		Simpson, et al.	606	159
<i>h</i>	P12	5015249	1991-05-14		Nakao, et al.	606	142
<i>h</i>	P13	5011624	1991-04-30		Yamagishi, et al.	252	299.5
<i>h</i>	P14	4983176	1991-01-08		Cushman, et al.	606	151
<i>h</i>	P15	4942102	1990-07-17		Keys, et al.	430	1
<i>h</i>	P16	4930674	1990-06-05		Barak	227	179
<i>h</i>	P17	4929240	1990-05-29		Kirsch, et al.	606	151
<i>h</i>	P18	4923269	1990-05-08		Healey	350	96.15
<i>h</i>	P19	4891152	1990-01-02		Miller, et al.	252	299.01
<i>h</i>	P20	4857425	1989-08-18		Phillips	430	1
<i>h</i>	P21	4856876	1989-08-15		Ferguson	350	350 F
<i>h</i>	P22	4818070	1989-04-04		Gunjima, et al.	350	334
<i>h</i>	P23	4810063	1989-03-07		Ferguson	350	347 V
<i>h</i>	P24	4809713	1989-03-07		Grayzel	128	785
<i>h</i>	P25	4728547	1988-03-01		Vaz, et al.	428	1
<i>h</i>	P26	4688900	1987-08-28		Doane, et al.	350	347 V
<i>h</i>	P27	4673241	1987-06-18		Nishiwaki, et al.	350	3.64
<i>h</i>	P28	4560249	1985-12-24		Nishiwaki, et al.	350	162.17
<i>h</i>	P29	4374371	1983-02-15		Narancic	337	159
<i>h</i>	P30	4368736	1983-01-18		Kaster	128	334 C
<i>h</i>	P31	4210132	1980-07-01		Perlin	128	1 R
<i>h</i>	P32	4045124	1977-08-30		Pollack, et al.	350	160 LC

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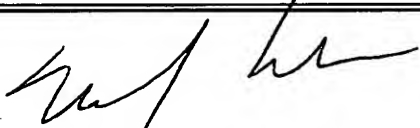
P33	4018228	1977-04-19	Goosen	128	305
P34	4006963	1977-02-08	Baues, et al.	350	97 C
P35	4003629	1977-01-18	Baues, et al.	350	96 C
P36	3658526	1972-04-25	Haugh	96	27

Remarks

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Signature

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Form PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent & Trademark Office	Atty. Docket No. SAIC0006	Serial No. 09/577166
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Richard L. SUTHERLAND, et al	
		Filing Date May 24, 2000	Group 1756

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)

All U.S. references were filed electronically on February 25, 2003 as Part 2 and 3 of this 3-part IDS submission. The paper submission (herewith) is Part 1 of the IDS submission which was also filed on February 25, 2003.

FOREIGN PATENT DOCUMENTS

<i>W</i>	WO 99/09440	2/25/99	Foster-Miller, Inc.	G02B	6/12	8/13/98
<i>W</i>	JP 10319237	12/4/98	Fuji Xerox Co. Ltd.	G02B	5/32	5/22/97
<i>W</i>	EP 0 867 749 A2	9/30/98	Xerox Corporation	G02F	1/1335	3/12/98
	EP 0 856 768 A2	8/5/98	Xerox Corporation	G02F	1/1347	1/27/98
<i>W</i>	EP 0 856 766 A2	8/5/98	Xerox Corporation	G02F	1/1333	1/27/98
<i>W</i>	EP 0 856 765 A1	8/5/98	Xerox Corporation	G02F	1/1333	1/23/98
<i>W</i>	WO 97/27519	7/31/97	Foster-Miller, Inc.	G03H	1/04	1/29/97

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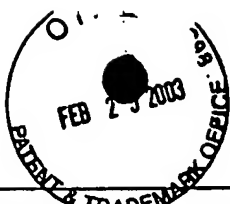
44	GB 2 292 745	3/8/96	Merck Patent GmbH	C09K	18/44	3/8/95
44	DE 44 08 746 A1	9/21/95	Medolas Ges Fuer Medizintechni	A61B	17/36	3/15/94
44	EP 0 672 386 A1	9/20/95	Surgical Systems & Instruments, Inc.	A61B	17/22	3/10/94
44	WO 95/17127	6/29/95	Rygaard, Jorgen	A61B	17/11	4/12/94
44	GB 2 281 566	3/8/95	Merck Patent GmbH	C09K	19/30	9/2/94
44	JP 6-190185	4/21/94	Zanussi Elettrodomestici (IT)	D06F	39/12	
44	WO 94/04958	3/2/94	Merck Patent GmbH	G02F	1/1333	8/12/93
44	EP 0 422 689 A2	4/11/91	Mountpelier Investments, S.A.	A61M	25/00	1/9/87
44	SU 1635966	3/23/91	Sverdlovsk G Med. Inst.	A61B	17/00	3/17/88
44	GB 2 222 696	3/14/90	Exitech Ltd.	G03H	1/04	7/9/88
44	WO 89/06264	7/13/89	Hughes Aircraft Company	C09K	19/00	11/21/88
44	WO 81/00668	3/19/81	Jansen, Anton	A61B	17/11	9/5/80
44	CA 544591	8/6/57	National Research Development Corp.	—	—	—

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	International Search Report for Application No. PCT/US97/12577, dated January 14, 1998 (mailing date)
	Written Opinion for Application No. PCT/US97/12577, dated April 28, 1998 (mailing date)
	Preliminary Examination Report for Application No. PCT/US97/12577, dated September 3, 1998 (mailing date)
	European Search Report for Application No. EP 97 93 7988, dated October 13, 1999
	International Search Report for Application No. PCT/US00/34661, dated July 17, 2001
	International Search Report for Application No. PCT/US01/40691, dated September 5, 2001 (mailing date)
	International Preliminary Examination Report for Application No. PCT/US00/34661, dated February 20, 2002
	Written Opinion for Application No. PCT/US01/40691, dated May 15, 2002 (mailing date)
	Preliminary Examination Report for Application No. PCT/US01/40691, dated September 10, 2002 (mailing date)
	R. T. Pogue, et al., "Monomer Functionality Effects in the Anisotropic Phase Separation of Liquid Crystals," <i>Polymer</i> 41, pp. 733-741, 2000
	M. Escuti, et al., "5.3: A Model of the Fast-Switching Polymer-Stabilized IPS Configuration," <i>SID International Symposium, Digest of Technical Papers</i> , First Edition, pp. 32-35, May, 1999
	C. C. Bowley, et al., "45.3: Electro-Optic Investigations of H-PDLCs: The Effect of Monomer Functionality on Display Performance," <i>SID International Symposium, Digest of Technical Papers</i> , First Edition, pp. 958-961, May, 1999
	C. C. Bowley, et al., "Advances in Holographic Polymer Dispersed Liquid Crystal Technology," in <i>Liquid Crystal Materials and Devices</i> , Mat. Res. Soc. Symposium Proceedings, Vol. 559, pp. 97-107, 1999
	C. C. Bowley, et al., "Morphology of Holographically-Formed Polymer Dispersed Liquid Crystals (H-PDLC)," <i>Mol. Cryst. Liq. Cryst.</i> , Vol. 331, pp. 209-216, 1999
EXAMINER DATE CONSIDERED	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication.	



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OTHER DOCUMENTS CONT'D. (Including Author, Title, Date, Pertinent Pages, Etc.)

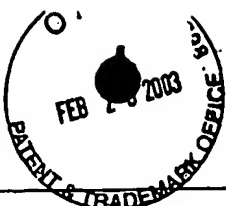
W	M. Date, et al., "Full-Color Reflective Display Device Using Holographically Fabricated Polymer-Dispersed Liquid Crystal (HPDLC)," <i>Journal of the Society for Information Display (SID)</i> , Vol. 7, pp. 17-22, 1999
W	J. A. Firehammer, et al., "Lasing Pixels: A New Application for Polymer Dispersed Liquid Crystals (PDLCs)," <i>Mol. Cryst. Liq. Cryst.</i> , Vol. 331, pp. 165-172, 1999
W	Seferis, James C., "Refractive Indices of Polymers," <i>Polymer Handbook</i> , 4 th Edition, John Wiley & Sons, Inc., pp. 571-582, Copyright 1999
W	Richard L. Sutherland, et al., "Switchable Holograms for Displays and Other Applications," <i>SPIE Proceedings</i> , Vol. 3421, pp. 8-18, June, 1998
W	L. V. Natarajan, et al., "Holographic PDLCs for Optical Beam Modulation, Deflection, and Dynamic Filter Applications," <i>SPIE Proceedings</i> , Vol. 3292, pp. 44-51, January 28-29, 1998
W	L. V. Natarajan, et al., "Electrically Switchable Holograms Containing Novel PDLC Structures," <i>SPIE Proceedings</i> , Vol. 3143, pp. 182-190, July 28-29, 1997
W	N. M. Lawandy, et al., "L1.3: Lasing Pixel PDLC Light Valves for Projection Applications," <i>SID International Symposium, Digest of Technical Papers</i> , First Edition, pp. 1001-1004, May, 1997
W	G. P. Crawford, et al., "Reflective Color LCDs Based on H-PDLC and PSCT Technologies," <i>Journal of the Society for Information Display</i> , Vol. 5, No. 1, pp. 45-48, 1997
W	D. Schwarze-Haller and F. Noack, "Nuclear Magnetic Resonance Field-Cycling Proton Relaxation Study of Polymer Dispersed Liquid Crystals," <i>J. Chem. Phys.</i> , Vol. 105, No. 11, pp. 4823-4832, September, 1996
W	Lawrence H. Domash, et al., "Switchable-Focus Lenses in Holographic Polymer Dispersed Liquid Crystal," <i>SPIE</i> , Vol. 2689, pp. 188-194, May, 1996
W	Richard L. Sutherland, et al., "The Physics of Photopolymer-Liquid Crystal Composite Holographic Gratings," <i>SPIE Proceedings</i> , Vol. 2689, pp. 158-169, May, 1996
	T. J. Dunning, et al., "Liquid Crystals for Advanced Technologies," <i>Materials Research Society</i>, pp. 331-343, April 8-11, 1996 not provided

EXAMINER

DATE CONSIDERED

4/21/03

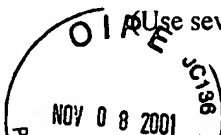
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OTHER DOCUMENTS CONT'D. (Including Author, Title, Date, Pertinent Pages, Etc.)					
W	R. L. Sutherland, et al., "Switchable Bragg Gratings Formed <i>in situ</i> Within a Polymer-Dispersed Liquid Crystal Composite Medium," <i>Materials Research Society Symp. Proc.</i> , Vol. 425, pp. 331-341, April 8-11, 1996				
RECEIVED FEB 27 2003 P. 100	Timothy J. Bunning, et al., "The Effects of Eliminating the Chain Extender and Varying the Grating Periodicity on the Morphology of Holographically Written Bragg Gratings," <i>SPIE Proceedings</i> , Vol. 2651, pp. 44-54, January 31 - February 1, 1996				
W	J. Bunning, et al., "Morphology of Reflection Holograms Formed <i>in situ</i> Using Polymer-Dispersed Liquid Crystals," <i>Polymer</i> , Vol. 37, No. 14, pp. 3147-3150, 1996				
W	G. S. Iannacchione, et al., "Deuterium NMR and Morphology Study of Polymer-Dispersed Liquid-Crystal Bragg Gratings," <i>Europhysics Letters</i> , Vol. 36, No. 6, pp. 425-430, 1996				
W	Richard L. Sutherland, et al., "Analysis of Periodic Polymer-Dispersed Liquid Crystal Structures for Dynamic Hologram Applications," <i>SPIE Proceedings</i> , Vol. 2532, pp. 309-318, July 10-12, 1995				
W	Richard L. Sutherland, et al., "Switchable Holograms in New Photopolymer-Liquid Crystal Composite Materials," <i>SPIE Proceedings</i> , Vol. 2404, pp. 132-143, February 9-10, 1995				
W	N. Kawatsuki and H. Ono, "Electro-Optical Properties of Polymer/(Liquid Crystal) Composite Film Fabricated by Two-Step Phase Separation Method," <i>Chemistry Letters</i> , No. 5, pp. 333-334, 1995				
W	R. L. Sutherland, et al., "Electrically Switchable Volume Gratings in Polymer-Dispersed Liquid Crystals," <i>Appl. Phys. Lett.</i> , Vol. 64, No. 9, pp. 1074-1076, February 28, 1994				
W	Richard L. Sutherland, et al., "Development of Photopolymer-Liquid Crystal Composite Materials for Dynamic Hologram Applications," <i>SPIE Proceedings</i> , Vol. 2152, pp. 303-313, January 26-28, 1994				
W	K. Tanaka, et al., "Holographically Formed Liquid-Crystal/Polymer Device for Reflective Color Display," <i>Journal of the Society for Information Display</i> , Vol. 2, No. 1, pp. 37-38, 1994				
W	L. Domash, et al., "Programmable Beamlet Generator, Dynamic Lens, and Optical Memory Using Electrically Switched Holographic Devices," <i>SPIE Proceedings</i> , Vol. 2026, pp. 642-652, November, 1993				
<table border="1"> <tr> <td>EXAMINER</td> <td>DATE CONSIDERED</td> </tr> <tr> <td>W</td> <td>4/2/03</td> </tr> </table>		EXAMINER	DATE CONSIDERED	W	4/2/03
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OTHER DOCUMENTS CONT'D. (Including Author, Title, Date, Pertinent Pages, Etc.)	
no	Hideya Murai, et al., "Electro-Optic Properties for Liquid Crystal Phase Gratings," <i>SPIE Proceedings</i> , Vol. 1665, pp. 230-239, February 11-13, 1992
RECEIVED FEB 27 2003 TC 1700	Lawrence H. Domash, "Applications of Dynamic Holograms for Quasi-Volume Storage," <i>SPIE Proceedings, Very Large Optical Memories-Materials and System Architectures</i> , Vol. 1773, 5 pp., 1992
	Richard T. Ingwall and Timothy Adams, "Hologram: Liquid Crystal Composites," <i>SPIE Proceedings</i> , Vol. 1555, pp. 279-290, July 24-25, 1991
	A. M. Lackner, et al., "Droplet Size Control in Polymer Dispersed Liquid Crystal Films," <i>SPIE Proceedings</i> , Vol. 1080, pp. 53-61, January 17-18, 1989
	Hori, Asai, and Fukai, "Field-Controllable Liquid-Crystal Phase Grating," <i>IEEE</i> , Vol. ED-16, p. 1734 (4 pp.), 1979
	Edited by H. Bennett, "Concise Chemical and Technical Dictionary, FAIC" Chemical Publishing Co., Inc., 1974 not per vol
aw	R. A. Kashnow and J. E. Bigelow, "Diffraction From a Liquid Crystal Phase Grating," <i>Applied Optics</i> , Vol. 12, No. 10, pp. 2302-2304, October, 1973
aw	Stoke, Funkhouser, Leonard, Indebetow, and Zech, "Hand-Held Holography," 1 p., September 19, 1966
EXAMINER <i>aw/h</i> DATE CONSIDERED <i>4/21/09</i>	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication.	

INFORMATION DISCLOSURE CITATION Use several sheets if necessary) 	Atty. Docket No. SAIC0006-US	Serial No. 09/577,166
	Applicant(s): R. L. Sutherland, et al.	
	Filing Date May 24, 2000	Group 1756


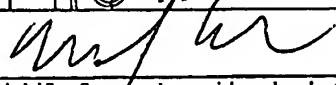
U.S. PATENT DOCUMENTS

Examiner * Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	5,930,011	7/27/99	Gambogi, Jr.	359	15	
	5,852,504	12/22/98	Kato et al	359	9	
	5,682,214	10/28/97	Amako et al	349	74	
	5,529,861	6/25/96	Redfield	430	1	
	5,499,118	3/12/96	Wreede et al	359	12	
	5,471,326	11/28/95	Hall et al	359	15	
	4,938,568	7/3/90	Margerum et al	350	334	
	3,667,946	6/6/72	Sturdevant	96	35.1	

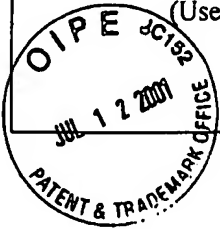
FOREIGN PATENT DOCUMENTS *of record*

Document Number	Date	Country	Class	Subclass	Translation Yes No	
W0 98/04650	2/5/98	PCT				
JP 403188479	8/16/91	Japan				
EP 0087281	8/31/83	EPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Page, Etc.) *of record*

 RECEIVED NOV 13 2001 TC 1700	R. L. Sutherland, L. V. Natarajan, V. P. Fondiglia, T. J. Bunning, "Bragg Gratings in an Acrylate Polymer Consisting of Periodic Polymer-Dispersed Liquid-Crystal Planes, <i>Chem. Mater</i> , 1993, 5, 1533-1538	
	International Search Report dated September 5, 2001	
	EXAMINER 	DATE CONSIDERED 12/28/01
	*Examiner: Initial if referenced considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Atty. Docket No. SAIC0006-US	Serial No. 09/577,166
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	Filing Date May 24, 2000	Group 1756



U.S. PATENT DOCUMENTS

Examiner * Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

RECEIVED
JUL 16 2001
TC 1700

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Page, Etc.)

WA		Chris C. Bowley, Haiji Yuan, Gregory P. Crawford, "Morphology of Holographically-Formed Polymer Dispersed Liquid Crystals (H-PDLC)", <i>Mol. Cryst. Liq. Cryst.</i> , 1999, Vol. 331., pp. 209-216
WA		G. P. Crawford, T. G. Fiske, L. D. Silverstein, "Reflective Color LCDs Based on H-PDLC and PSCT Technologies", <i>SID International Symposium Digest of Applications Papers</i> , May 14-16, 1996, p. 99

EXAMINER

DATE CONSIDERED

*Examiner: Initial if referenced considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Atty. Docket No. SAIC0006-US	Serial No. To Be Assigned
	Applicant(s): Richard Sutherland, et al.	
	Filing Date Herewith	Group To Be Assigned

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 09/577166
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U.S. PATENT DOCUMENTS

Examiner * Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
HA	5,942,157	8/24/99	Sutherland, et al.	252	582	7/12/96
HA	5,852,504	12/22/98	Kato, et al	369	9	12/22/98
HA	5,725,970	3/10/98	Martin, et al.	430	2	9/16/96
HA	5,453,338	9/26/95	Suga et al	430	1	3/30/93
HA	5,014,709	5/14/91	Bjelkhagen, et al.	128	654	6/13/89
HA	5,003,386	3/28/91	Doyle, et al.	358	90	12/8/89
HA	4,416,540	11/22/83	Nicholson	350	3.69	11/23/81
HA	4,832,424	5/28/89	McGrew	350	3.65	10/29/85
HA	4,124,947	11/14/78	Kuhl, et al.	40	453	11/8/76
HA	3,758,186	9/11/73	Brumm	350	3.5	11/30/66
HA	3,580,655	5/25/71	Leith, et al.	350	3.5	10/23/65

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Page, Etc.)

HA		V. N. Mikhailov, K. T. Weitzel, V. N. Krylov and Urs. P. Wild, "Pulse Hologram Recording in DuPont's Photopolymer Films, SPIE Vol. 3011, pp. 200-202, 1997
HA		K. Thilo Weitzel, Urs P. Wild, Victor N. Mikhailov and Vitaly N. Krylov, "Hologram recording in DuPont photopolymer films by use of pulse exposure", Optics Letters, Vol. 22, No. 24, 12/15/97
HA		R. L. Sutherland, L. V. Natarajan, V. P. Tondiglia and T. J. Bunning, "Bragg Gratings in an Acrylate Polymer Consisting of Periodic Polymer-Dispersed Liquid-Crystal Planes, Chem. Mater, 1993, 5, 1533-1538
HA		D. J. Loughnot, N. Noriet, and C. N. Turck, "Photopolymers for holographic recording: IV. New self-processing formulations based on β -hydroxy ethyloxazolidone acrylate, <i>Pure Appl. Opt.</i> 2 (1993) 383-392
HA		H. I. Bjelkhagen, J. Chang, and K. Moneke, High-resolution contact Denisyuk holography, <i>Applied Optics</i> , Vol. 31, No. 8, pp. 1041- 1047, March 10, 1992
HA		G. von Bally, W. Schmidthaus, H. Sakowski, and W. Mette, Gradient-index optical systems in holographic endoscopy, <i>Applied Optics</i> , Vol. 23, No. 11, pp. 1725-1729, June 1, 1984
HA		A. R. Tokuda, D. C. Auth, A. P. Bruckner, Holocamera for 3-D micrography of the alert human eye, <i>Applied Optics</i> , Vol. 19, No. 13, pp. 2219-2225, July 1, 1980
HA		S. A. Benton, H. S. Mingrace, W. R. Walter, One-step white-light transmission holography,

SPIE Vol 215 (1980) pp 156-161

HA HA 7/18/01

		SPIE, Vol. 215, (1980) pp. 156-161
WA		S. A. Benton, H. S. Mingrace, W. R. Walter, One-step white-light transmission holography, SPIE, Vol. 212, pp. 2-7 (1979)
NA		G. W. Stroke, A. E. Labeyrie, White-light Reconstruction of Holographic Images Using the Lippmann-Bragg Diffraction Effect, Physics Letters, Vol. 20, No. 4, pp. 368-370, March 1, 1966

EXAMINER <i>W. A. [Signature]</i>	DATE CONSIDERED <i>7/19/01</i>
*Examiner: Initial if referenced considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	